

# Product datasheet for MR229841

### Irf7 (NM\_001252601) Mouse Tagged ORF Clone

### **Product data:**

#### OriGene Technologies, Inc.

9620 Medical Center Drive, Ste 200 Rockville, MD 20850, US Phone: +1-888-267-4436 https://www.origene.com techsupport@origene.com EU: info-de@origene.com CN: techsupport@origene.cn

Product Type:	Expression Plasmids
Product Name:	Irf7 (NM_001252601) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	lrf7
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR229841 representing NM_001252601 Red=Cloning site Blue=ORF Green=Tags(s)
	TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC GCC <mark>GCGATCGC</mark> C
	ATGGCTGAAGTGAGGGGGGGCCAGCGAGTGCTGTTTGGAGACTGGCTATTGGGGGAGGTCAGCAGCGGCC

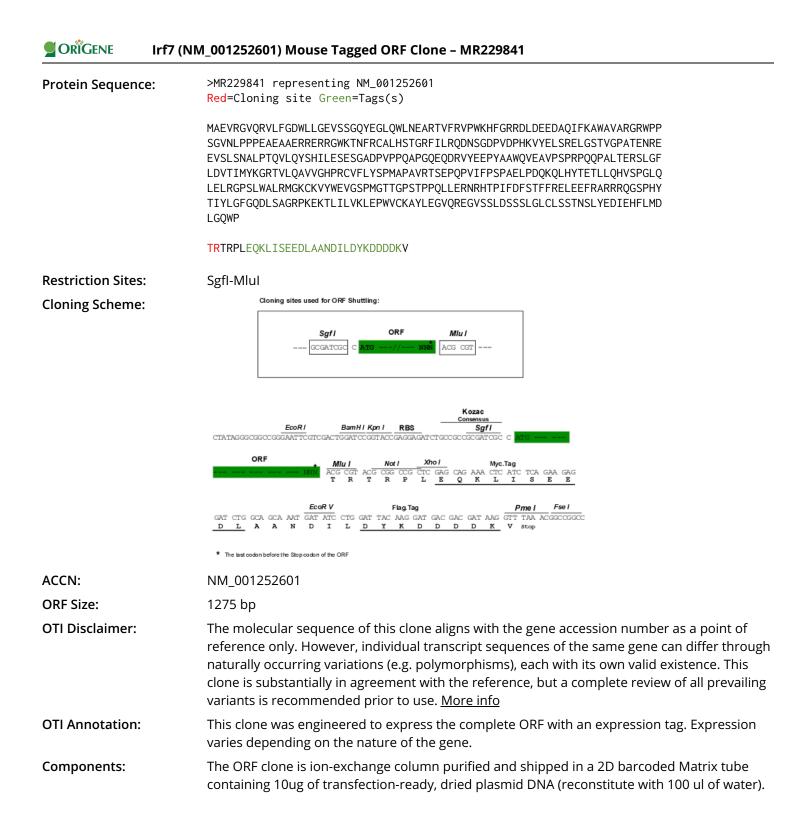
ATGGCTGAAGTGAGGGGGGGTCCAGCGAGTGCTGTTTGGAGACTGGCTATTGGGGGGAGGTCAGCAGCGGCC AGTACGAGGGGCTGCAGTGGCTGAACGAGGCTCGCACAGTCTTCCGCGTACCCTGGAAGCATTTCGGTCG AGTGGAGTTAACCTGCCACCCCAGAGGCTGAGGCTGCTGAGCGAAGAGCGAAGAGGCTGGAAGACCA ACTTCCGCTGTGCACTCCACAGCACAGGGCGTTTTATCTTGCGCCCAAGACAATTCAGGGGATCCAGTTGA TCCGCATAAGGTGTACGAACTTAGCCGGGAGCTTGGATCTACTGTGGGCCCAGCCACGGAAAATAGGGAA GAAGTGAGCCTCAGCAATGCTCTGCCCACACAGGTTCTGCAGTACAGCCACATACTGGAATCCGAGTCTG GGGCAGACCCCGTCCCACCACGGCTCCTGGCCAGGAGCAAGACCGTGTTTACGAGGAACCCTATGCAGC CTGGATGTGACCATCATGTACAAGGGCCGCACAGTGCTACAGGCAGTGGGGGCACCCCAGATGCGTGT TCCTGTACAGCCCCATGGCCCCAGCAGTAAGAACTTCAGAGCCCCAGCCGGTGATCTTTCCCAGTCCTGC TGAGCTCCCAGATCAGAAGCAGCTGCACTACACAGAGACGCTTCTCCAGCATGTGTCTCCCGGCCTTCAG CTGGAGCTTCGAGGACCGTCACTGTGGGCCCTGCGTATGGGCAAGTGCAAGGTGTACTGGGAGGTAGGCA GCCCTATGGGCACTACCGGCCCCTCCACCCCACCCCAGCTGCTGGAGCGCAACCGCCACACCCCCATCTT CGACTTCAGCACTTTCTTCCGAGAACTGGAGGAGTTTCGGGCTCGGAGGCGGCAAGGGTCACCACACTAC ACCATCTACCTGGGTTTTGGGCAAGACTTGTCAGCAGGGAGGCCCAAGGAGAAGACCCTGATCCTGGTGA AGCTGGAGCCATGGGTATGCAAGGCATACCTGGAGGGCGTGCAGCGTGAGGGTGTGTCCTCCCTGGACAG CAGCAGTCTCGGCTTGTGCTTGTCTAGCACCAACAGTCTCTACGAAGACATCGAACACTTCCTCATGGAC CTGGGTCAGTGGCCT

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT ACAAGGATGACGACGATAAGGTTTAA



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### CRIGENE Irf7 (NM\_001252601) Mouse Tagged ORF Clone – MR229841

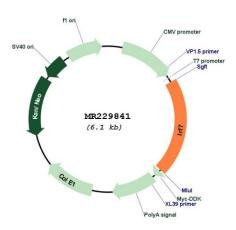
Reconstitution Method:	<ol> <li>Centrifuge at 5,000xg for 5min.</li> <li>Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li> <li>Close the tube and incubate for 10 minutes at room temperature.</li> <li>Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li> <li>Store the suspended plasmid at -20°C. The DNA is stable for at least one year from date of shipping when stored at -20°C.</li> </ol>
Note:	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
RefSeq:	<u>NM 001252601.1, NP 001239530.1</u>
RefSeq Size:	1780 bp
RefSeq ORF:	1278 bp
Locus ID:	54123
Cytogenetics:	7 F5
MW:	48.5 kDa
Gene Summary:	Key transcriptional regulator of type I interferon (IFN)-dependent immune responses and plays a critical role in the innate immune response against DNA and RNA viruses (PubMed:27129230). Regulates the transcription of type I IFN genes (IFN-alpha and IFN-beta) and IFN-stimulated genes (ISG) by binding to an interferon-stimulated response element

(PubMed:27129230). Regulates the transcription of type I IFN genes (IFN-alpha and IFN-beta) and IFN-stimulated genes (ISG) by binding to an interferon-stimulated response element (ISRE) in their promoters. Can efficiently activate both the IFN-beta (IFNB) and the IFN-alpha (IFNA) genes and mediate their induction via both the virus-activated, MyD88-independent pathway and the TLR-activated, MyD88-dependent pathway. Induces transcription of ubiquitin hydrolase USP25 mRNA in response to lipopolysaccharide (LPS) or viral infection in a type I IFN-dependent manner (PubMed:27129230). Required during both the early and late phases of the IFN gene induction but is more critical for the late than for the early phase. Exists in an inactive form in the cytoplasm of uninfected cells and following viral infection, double-stranded RNA (dsRNA), or toll-like receptor (TLR) signaling, becomes phosphorylated by IKBKE and TBK1 kinases. This induces a conformational change, leading to its dimerization and nuclear localization where along with other coactivators it can activate transcription of the type I IFN and ISG genes. Can also play a role in regulating adaptive immune responses by inducing PSMB9/LMP2 expression, either directly or through induction of IRF1. Binds to the Q promoter (Qp) of EBV nuclear antigen 1 a (EBNA1) and may play a role in the regulation of EBV latency. Can activate distinct gene expression programs in macrophages and regulate the anti-tumor properties of primary macrophages.[UniProtKB/Swiss-Prot Function]

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## **Product images:**



Circular map for MR229841

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